

(±)-Nicotine-d₇ (N-methyl-d₃; pyridine-d₄)

Section 1. Chemical product and company identifications

Product code: D-6500

Chemical formula: C₁₀H₇D₇N₂

CAS: 1219805-86-3

CAS (unlabelled): 22083-74-5

Synonyms: (±)-3-(1-Methyl-2-pyrolidinyl)pyridine

Supplier / Manufacturer:

C/D/N Isotopes Inc.

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Website: www.cdnisotopes.com

In case of emergency:

TOXYSKAN HOTLINE: 1-855-780-0599


Section 2. Hazards identifications

GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

GHS Classification:

- Acute toxicity, Oral (Category 2)
- Acute toxicity, Dermal (Category 2)

GHS Label elements:

- Pictograms: 
- Signal word: Danger

Hazards statement: - H300 + H310 Fatal if swallowed or in contact with skin.

Precautionary statement:

- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink, or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.
- P330 Rinse mouth.
- P361 Remove/Take off immediately all contaminated clothing.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant

Section 3. Composition and information on ingredients

<u>Name</u>	<u>CAS</u>	<u>Concentration %</u>
(±)-Nicotine-d ₇	1219805-86-3	> 98

Section 4. First aid measures

Eye contact: Flush eyes with water as a precaution.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically

Most important symptoms and effects, both acute and delayed: No data available.

Section 5. Firefighting measures

Flammability of the product: Flammable in the presence of a source of ignition when the temperature is above the flash point.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides.

Firefighting media and instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7. Handling and storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation.

Storage: STORE REFRIGERATED. Adequate ventilation. Protect from moisture. Protect from light.

Section 8. Exposure Controls, Personal Protections

Engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

Eyes: Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).

Respiratory: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

Hands: Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin/body: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 162.23 g/mol

Physical status: Liquid

Color: Colorless to brown

Odour: No data available

Density: 1.015 g/cm³

Melting point: -80 °C (-112 °F)

Boiling point: 247 °C (477 °F)

Vapour pressure: 0.05 hPa (0.04 mmHg) at 25 °C (77 °F)

Vapour density: 5.6 (Air = 1)

Partition coefficient (octanol/water): log Pow: 1.17

Water solubility: Soluble

Lower explosion limit: 0.7 Vol%

Upper explosion limit: 4 Vol%

Auto-ignition temperature: 240 °C (464 °F)

Flash point: 101 °C (214 °F)

Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions. Avoid direct sunlight

Incompatibility: Strong oxidizing agents.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides.

Reactivity conditions: Avoid moisture and strong heating

Section 11. Toxicological information (unlabelled)

Toxicological data: (±)-Nicotine

Information on ingredients:

Name	CAS	LD₅₀	LC₅₀
(±)-Nicotine	22083-74-5	Oral - Rat - 50 mg/kg Dermal - Rat - 140 mg/kg	No data available

Potential acute effects

- **Eyes:** No data available.
- **Skin:** Fatal if absorbed through skin. May cause skin irritation.
- **Inhalation:** No data available.
- **Ingestion:** Fatal if swallowed.

Potential chronic effects

- **Carcinogenic effects:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **Mutagenic effects:** No data available.
- **Teratogenic effects:** No data available.
- **Medical conditions aggravated by overexposure:** Prolonged or repeated exposure can cause: nausea, dizziness, headache, vomiting, diarrhoea, convulsions.

Section 12. Ecological information

Ecological data:

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
(±)-Nicotine	4 mg/l LC50	Oncorhynchus mykiss	96 h
	0.24 mg/l EC50	Daphnia magna	48 h
	11 mg/l	Desmodesmus subspicatus	72 h

Effects on environment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Mobility: No data available.

Environmental precautions: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

Section 14. Transportation information

Classification DOT/IMDG/IATA label:

Shipping name: Nicotine

UN number: UN1654

Class: 6.1

Packaging group: II

Additional information: None

Section 15. Regulatory information

UNITED STATES: NFPA classification



Health: 4
Flammable: 1
Reactivity: 0
Special conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

U.S. Federal regulations:

California proposition 65 requirements : Listed

SARA section 313 (specific toxic chemical listings) : Listed

CERCLA reportable quantity : Listed

Sections 302-304 reportable quantity : Listed

Community Right-to-Know (Sections 311 and 312) : Listed

Section 16. Additional information

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Elaborated by: Toxyscan Inc., 1-866-780-0599

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This safety data sheet has been prepared in accordance with the OSHA (USA), WHMIS (Canada) / GHS classification rules in effect at the time of writing.